

Removing accompanying material from flat textiles - threads or animal hair by treatment with supercritical fluid

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Equivalents:

Abstract

Textile flat goods, threads or animal hair are pre-treated with a supercritical fluid, to remove accompanying material.

Pre-treatment is for 0.5-60 (2-15) mins, at 8-250 (31-197 deg C and 30-300 bars, using as fluid alkanes, NH₃, fluorochloro-alkanes, CO₂ and/or CO. Textile hair, esp raw wool, is treated with ethane, partic by passing the supercritical fluid through a pile of the hair, esp a press-cake.

ADVANTAGE - The accompanying materials (I), eg emulsifiers or dyes, are removed by a quick method which is economical in energy and forms no waste water. Solubility of (I) in the fluid is high, and (I) are easily removed from the fluid and can be processed and/or re-used. The goods do not have to be dried. Treatment of animal hair gives wool grease, for use in pharmacy and cosmetics. the fluid may be non-toxic; leakage does not then release poisonous substances into the atmos; any fluid adsorbed by the goods is easily removed by lowering the pressure or temp, or increasing the vol.

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